RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/542,857_
Source: _1 Fwo_
Date Processed by STIC: _10/27/06_

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IFWO

RAW SEQUENCE LISTING   DATE: 10/27/2006
PATENT APPLICATION: US/10/542,857   TIME: 10:22:06

Input Set : A:\25931163.APP
Output Set: N:\CRF4\10272006\J542857.raw

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 3 <110> APPLICANT: PAVONE, VINCENZO
 4        LUSSO, PAOLO
 6 <120> TITLE OF INVENTION: RANTES-DERIVED PEPTIDES WITH ANTI-HIV ACTIVITY
 8 <130> FILE REFERENCE: 2503-1163
10 <140> CURRENT APPLICATION NUMBER: 10/542,857
11 <141> CURRENT FILING DATE: 2005-07-21
13 <150> PRIOR APPLICATION NUMBER: PCT/IB2004/000155
14 <151> PRIOR FILING DATE: 2004-01-22
16 <150> PRIOR APPLICATION NUMBER: IT MI2003A000107
17 <151> PRIOR FILING DATE: 2003-01-24
19 <160> NUMBER OF SEQ ID NOS: 38
21 <170> SOFTWARE: PatentIn Ver. 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 19
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
30        peptide
32 <220> FEATURE:
33 <221> NAME/KEY: MOD_RES
34 <222> LOCATION: (1)
35 <223> OTHER INFORMATION: Ac-Cys
37 <220> FEATURE:
38 <221> NAME/KEY: MOD_RES
39 <222> LOCATION: (2)
40 <223> OTHER INFORMATION: Phe, Tyr, 1Nal, 2Nal, or Cha
42 <220> FEATURE:
43 <221> NAME/KEY: MOD_RES
44 <222> LOCATION: (6)..(17)
45 <223> OTHER INFORMATION: This region may encompass 2-12 variable amino acid
46        residues
48 <220> FEATURE:
49 <221> NAME/KEY: MOD_RES
50 <222> LOCATION: (18)
51 <223> OTHER INFORMATION: Phe, Tyr, 1Nal, 2Nal, or Cha
53 <220> FEATURE:
54 <223> OTHER INFORMATION: C-term amidated
56 <400> SEQUENCE: 1
57 Cys Xaa Pro Tyr Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
58 1               5                   10                  15
60 Xaa Xaa Tyr
64 <210> SEQ ID NO: 2
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W--> (line 57)
W--> (line 60)

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Input Set : **A:\25031163.APP**
Output Set: **N:\CRF4\10272006\J542857.raw**

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 66 <212> TYPE: PRT
 67 <213> ORGANISM: Artificial Sequence
 69 <220> FEATURE:
 70 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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 73 <220> FEATURE:
 74 <221> NAME/KEY: MOD_RES
 75 <222> LOCATION: (7)
 76 <223> OTHER INFORMATION: Ala or Pro
 78 <400> SEQUENCE: 2
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 83 <210> SEQ ID NO: 3
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 85 <212> TYPE: PRT
 86 <213> ORGANISM: Artificial Sequence
 88 <220> FEATURE:
 89 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 90       peptide
 92 <220> FEATURE:
 93 <221> NAME/KEY: MOD_RES
 94 <222> LOCATION: (7)
 95 <223> OTHER INFORMATION: Ala or Pro
 97 <220> FEATURE:
 98 <221> NAME/KEY: MOD_RES
 99 <222> LOCATION: (13)
100 <223> OTHER INFORMATION: 1Nal
102 <400> SEQUENCE: 3
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W--> 103 **Ala Arg Pro Leu Pro Arg Xaa His Ile Lys Glu Tyr Xaa**
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104   1               5                   10
107 <210> SEQ ID NO: 4
108 <211> LENGTH: 13
109 <212> TYPE: PRT
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
114       peptide
116 <220> FEATURE:
117 <221> NAME/KEY: MOD_RES
118 <222> LOCATION: (7)
119 <223> OTHER INFORMATION: Ala or Pro
121 <220> FEATURE:
122 <221> NAME/KEY: MOD_RES
123 <222> LOCATION: (13)
124 <223> OTHER INFORMATION: 2Nal
126 <400> SEQUENCE: 4
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W--> 127 **Ala Arg Pro Leu Pro Arg Xaa His Ile Lys Glu Tyr Xaa**
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128   1               5                   10
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Input Set : A:\25031163.APP
Output Set: N:\CRF4\10272006\J542857.raw

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    132 <211> LENGTH: 13
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    134 <213> ORGANISM: Artificial Sequence
    136 <220> FEATURE:
    137 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    138       peptide
    140 <220> FEATURE:
    141 <221> NAME/KEY: MOD_RES
    142 <222> LOCATION: (7)
    143 <223> OTHER INFORMATION: Ala or Pro
    145 <220> FEATURE:
    146 <221> NAME/KEY: MOD_RES
    147 <222> LOCATION: (13)
    148 <223> OTHER INFORMATION: Cha
    150 <400> SEQUENCE: 5
W-->151 Ala Arg Pro Leu Pro Arg Xaa His Ile Lys Glu Tyr Xaa
    152   1               5                  10
    155 <210> SEQ ID NO: 6
    156 <211> LENGTH: 10
    157 <212> TYPE: PRT
    158 <213> ORGANISM: Artificial Sequence
    160 <220> FEATURE:
    161 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    162       peptide
    164 <220> FEATURE:
    165 <221> NAME/KEY: MOD_RES
    166 <222> LOCATION: (7)
    167 <223> OTHER INFORMATION: Ala or Pro
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    171   1               5                  10
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    175 <211> LENGTH: 10
    176 <212> TYPE: PRT
    177 <213> ORGANISM: Artificial Sequence
    179 <220> FEATURE:
    180 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    181       peptide
    183 <220> FEATURE:
    184 <221> NAME/KEY: MOD_RES
    185 <222> LOCATION: (7)
    186 <223> OTHER INFORMATION: Ala or Pro
    188 <400> SEQUENCE: 7
W-->189 Ala Arg Pro Leu Pro Arg Xaa His Tyr Phe
    190   1               5                  10
    193 <210> SEQ ID NO: 8
    194 <211> LENGTH: 10
    195 <212> TYPE: PRT
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PATENT APPLICATION: US/10/542,857   TIME: 10:22:06

Input Set : A:\25031163.APP
Output Set: N:\CRF4\10272006\J542857.raw

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198 <220> FEATURE:
199 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
200       peptide
202 <220> FEATURE:
203 <221> NAME/KEY: MOD_RES
204 <222> LOCATION: (7)
205 <223> OTHER INFORMATION: Ala or Pro
207 <400> SEQUENCE: 8
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213 <211> LENGTH: 10
214 <212> TYPE: PRT
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
219       peptide
221 <400> SEQUENCE: 9
222 Ala Arg Pro Leu Pro Arg Lys Glu Tyr Phe
223    1              5                10
226 <210> SEQ ID NO: 10
227 <211> LENGTH: 10
228 <212> TYPE: PRT
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
233       peptide
235 <400> SEQUENCE: 10
236 Ala Arg Pro Leu Pro Ile Lys Glu Tyr Phe
237    1              5                10
240 <210> SEQ ID NO: 11
241 <211> LENGTH: 10
242 <212> TYPE: PRT
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
247       peptide
249 <220> FEATURE:
250 <221> NAME/KEY: MOD_RES
251 <222> LOCATION: (4)
252 <223> OTHER INFORMATION: Ala or Pro
254 <400> SEQUENCE: 11
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W--> **255 Ala Arg Pro Xaa His Ile Lys Glu Tyr Phe**
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256    1              5                10
259 <210> SEQ ID NO: 12
260 <211> LENGTH: 19
261 <212> TYPE: PRT
262 <213> ORGANISM: Artificial Sequence
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265 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
266      peptide
268 <220> FEATURE:
269 <221> NAME/KEY: MOD_RES
270 <222> LOCATION: (1)
271 <223> OTHER INFORMATION: Ac-Cys
273 <220> FEATURE:
274 <223> OTHER INFORMATION: C-term amidated
276 <400> SEQUENCE: 12
277 Cys Phe Pro Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys Glu
278   1               5                   10                  15
280 Tyr Phe Tyr
284 <210> SEQ ID NO: 13
285 <211> LENGTH: 19
286 <212> TYPE: PRT
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
291      peptide
293 <220> FEATURE:
294 <221> NAME/KEY: MOD_RES
295 <222> LOCATION: (1)
296 <223> OTHER INFORMATION: Ac-Cys
298 <220> FEATURE:
299 <223> OTHER INFORMATION: C-term amidated
301 <400> SEQUENCE: 13
302 Cys Phe Pro Tyr Ile Ala Arg Pro Leu Pro Arg Pro His Ile Lys Glu
303   1               5                   10                  15
305 Tyr Phe Tyr
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310 <211> LENGTH: 19
311 <212> TYPE: PRT
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
316      peptide
318 <220> FEATURE:
319 <221> NAME/KEY: MOD_RES
320 <222> LOCATION: (1)
321 <223> OTHER INFORMATION: Ac-Cys
323 <220> FEATURE:
324 <221> NAME/KEY: MOD_RES
325 <222> LOCATION: (2)
326 <223> OTHER INFORMATION: 1Nal
328 <220> FEATURE:
329 <223> OTHER INFORMATION: C-term amidated
331 <400> SEQUENCE: 14
W--> 332 Cys Xaa Pro Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys Glu
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FYI

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/27/2006
PATENT APPLICATION: **US/10/542,857**   TIME: 10:22:07

Input Set : **A:\25031163.APP**
Output Set: **N:\CRF4\10272006\J542857.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,6,7,8,9,10,11,12,13,14,15,16,17,18
Seq#:2; Xaa Pos. 7
Seq#:3; Xaa Pos. 7,13
Seq#:4; Xaa Pos. 7,13
Seq#:5; Xaa Pos. 7,13
Seq#:6; Xaa Pos. 7
Seq#:7; Xaa Pos. 7
Seq#:8; Xaa Pos. 7
Seq#:11; Xaa Pos. 4
Seq#:14; Xaa Pos. 2
Seq#:15; Xaa Pos. 2
Seq#:16; Xaa Pos. 2
Seq#:17; Xaa Pos. 18
Seq#:18; Xaa Pos. 18
Seq#:19; Xaa Pos. 18
Seq#:29; Xaa Pos. 2

VERIFICATION SUMMARY   DATE: 10/27/2006
PATENT APPLICATION: US/10/542,857   TIME: 10:22:07

Input Set : **A:\25031163.APP**
Output Set: **N:\CRF4\10272006\J542857.raw**

```
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:16
L:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:16
L:485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:16
L:703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
```